

# PHYSICAL MATHEMATICS SEMINAR

## TURBULENCE IN A SOLID

**AREZKI BOUDAUD**

Ecole Normale Supérieure, France

### ABSTRACT:

The presence of a fluid is generally implied when using the concept of turbulence. In contrast, our experiments concern the large amplitude vibrations of an elastic sheet. First, we exhibited a transition whereby the plate rotates at constant velocity. Second, we examined the apparatus which was used in theatres to mimic the sound of thunder and showed that it shares many features with hydrodynamic turbulence.

**TUESDAY, MARCH 18, 2008**

**2:30 PM**

**Building 4, Room 370**

*Refreshments at 3:30 PM in Building 2, Room 349*

*(Applied Math Common Room)*



Massachusetts Institute of Technology  
Department of Mathematics  
Cambridge, MA 02139